

IN THE SPECIFICATION

Please amend paragraph [0009] at page 3, as follows:

[0009]           The outer tube 6 is provided on the inner side thereof with a cylindrical sample chamber inner tube 8 that has formed in the upper terminal part thereof an opening for mounting a sample. Directly below the opening, there ~~[[exist]]~~ exists a valve for shutting a measuring space off the atmosphere, a drive mechanism 33 adapted to catch the partly bulged part of the sample rod and move the sample rod vertically, and other necessary parts. Further, the opening for mounting the sample is adapted to form tightly sealed connection to a lower terminal opening 17 of a box 16 through a seal member 18 such as an O-ring compression fitting that excels in sealing performance.

Please amend the paragraph [0033] beginning at page 9, as follows:

[0033]           The condensing tube ~~[[41]]~~ 42 supported fast in the lower part of the upper supporting tube 41 and positioned in the middle part of the main pipe 23 has the tubular body thereof formed of copper. The condensing tube ~~[[41]]~~ 42, by thus being formed of copper, is enabled to be cooled efficiently through direct thermal conduction from the bottom of the outer tube 44 which will be described herein below, maintain the temperature of 1.6 K infallibly in this region of heat exchange, and liquefy the helium 3 gas held inside at this temperature.

Please cancel the original Abstract at page 13, lines 1-16 in its entirety and insert therefor the following replacement Abstract on a separate sheet as follows: